

Material Designation

DIN-EN Symbol	(CuNi13Zn24S0,1)
DIN-EN	-
UNS	-
JIS	-
Abbreviation Sundwig	SN13

Nominal Composition (mass content in %)

Cu	Balance
Zn	24
Ni	13
S	0.1
Pb	< 0,01

Mechanical Properties

Condition	Rm MPa	Rp0.2 MPa	A50 %	HB	Hv
R350 soft*	350 - 450	< 300	> 25	85 - 115	90 - 125
R450 H01*	450 - 520	> 310	> 12	115 - 150	125 - 160
R500 H02	500 - 600	> 450	> 5	145 - 170	155 - 185
R600 H04	600 - 710	> 580	> 2	170 - 190	185 - 210
R670 H06*	> 670	> 650	-	> 180	> 200

*Available on request

About the Alloy

SN13 is the new lead-free and machining-optimised nickel silver alloy from Sundwiger Messingwerk.

SN13 is the lead-free alternative to conventional lead-containing nickel silver alloys and was developed primarily for the production of high-quality keys. With a lead content of < 0.01%, SN13 meets the very strict requirements of individual countries, and especially the US market, for the definition of lead-free. SN13 thus differs from SN01, which, with 0.1% lead, meets European requirements for lead-free products and complements our lead-free portfolio.

The new material offers the same advantages as conventional lead-containing nickel silver. These include good corrosion resistance and proven mechanical properties. Machinability is achieved through sulfides resulting from a targeted sulfur alloying approach that ensure controlled chip breaking. Comprehensive production trials revealed that throughout all manufacturing steps, SN13 exhibited the high processability typical for conventional lead-containing reference materials.

We are happy to support you in converting your production to a lead-free future.

Typical Applications

- Security keys

Delivery Range of Semi-Finished Products

	Strip	Key blanks
Thickness	1.5 - 2.6 mm 2.6 - 3.5 mm	Punched according to customer's drawing using our own or customer-supplied tools. In cooperation with a sub-supplier, we also supply blanks in processed form.
Width	min. 30 mm min. 58 mm	

Your Local Contact Person

Europe

Asia



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